# Create a Database for Land Management Project Proposals, Tracking, Approval, & Monitoring



Project Title	Create a Database for Land Management Project Proposals, Tracking, Approval, & Monitoring
Project Summary	Streamline the Cumberland Ranger District of the Daniel Boone National Forest's project planning and implementation process! Help us centralize information to increase project planning and tracking, allowing employees and partners to spend more time restoring, enhancing, and sustaining the forest.
Country	United States

### **Project Description**

The Cumberland Ranger District manages 167,000 acres national forest resources over a complex landscape that sees heavy public demand for recreation and is full of unique natural and cultural resources that the agency is responsible for protecting and conserving. The District is actively engaged in forest restoration and recreation management projects and works diligently to plan and implement projects with minimal or no impacts to sensitive resources. The pace of project planning and implementation has increased over the last five years and the District is working to streamline the planning, review, and approval of these projects and monitor implementation and results over time. Presently, these efforts are managed through a series of forms and spreadsheets that get bounced around in e-mails and edited through cloud and server links. Streamlining these processes and centralizing the information will reduce the time required to plan and track projects and allow district employees and agency partners to spend more time restoring, enhancing, and sustaining the forest. We are seeking assistance from an individual who is interested in learning about how district resources are managed, understanding the laws and policies that the agency must comply with, and working to develop a more centralized process to enter, store, and access information, including a spatial component linked to the agency's corporate GIS Database. Several forms and spreadsheets need to be merged into a web-based form and database that links to the agency's GIS Database and compliments several other corporately developed and managed natural resource databases. Success will require the individual to learn about natural resource and forest management, the laws and regulations that guide management efforts, and the processes and procedures used to ensure compliance. The eIntern will need to participate in bi-weekly staff meetings, along with several additional conversations and interviews with individual employees and program managers. The project will be broken up into three parts: a learning phase where the intern develops an understanding of the District's needs for this project; a development phase where the intern works to develop a web-based database (and potentially an app that can be used on mobile devices) that will help the District develop and plan projects, work towards project approvals, and track and monitor projects over time; and a third phase where the database is tested and refined.

#### **Required Skills or Interests**

Skill(s)

Data analysis

Data visualization

#### **Additional Information**

Experience with and skills in database design, web-form development, and app development are strongly desired. Familiarity with Geographic Information Systems will help the intern with their success, but not critical. Interest in public land and natural resource management and how technology can assist land managers is helpful.

The Cumberland Ranger District is a team of employees who are committed to sustaining national forest resources and serving the public. Our team embraces technology and works well in a remote environment, frequently using video conferencing technologies. Whether you are in Kentucky or on the other side of the world, we welcome your assistance in helping manage our public lands.

## **Language Requirements**

None